

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07917-135002	Application No.
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant <b>Vacanti et al.</b>	
		Filing Date	Group Art Unit

### U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
<i>BL</i>	AA	4,880,622	11/1989	Allcock et al.			
	AB	4,440,921	04/1984	Allcock et al.			
	AC	4,495,174	01/1985	Allcock et al.			
	AD	5,589,376	12/1996	Anderson et al.			
	AE	5,780,300	07/1998	Artavanis-Tsakonas et al.			
	AF	5,667,778	09/1997	Atala			
	AG	5,192,326	03/1993	Bao et al.			
	AH	5,834,029	11/1998	Bellamkonda et al.			
	AI	5,486,359	01/1996	Caplan et al.			
	AJ	5,830,651	11/1998	Cäuley et al.			
	AK	5,786,216	07/1998	Dionne et al.			
	AL	5,405,366	04/1995	Fox et al.			
	AM	5,082,670	01/1992	Gage et al.			
	AN	5,762,926	06/1998	Gage et al.			
	AO	4,846,835	07/1998	Grande			
	AP	5,709,854	01/1998	Griffith-Cima et al.			
	AQ	4,474,751	10/1984	Haslam et al.			
	AR	4,474,752	10/1984	Haslam et al.			
	AS	4,474,753	10/1984	Haslam et al.			
	AT	4,478,822	10/1984	Haslam et al.			
	AU	5,994,754	11/1999	Hayashi et al.			
	AV	5,126,141	06/1992	Henry			
	AW	5,529,914	06/1996	Hubbell et al.			
	AX	5,410,016	04/1995	Hubbell et al.			
	AY	5,753,506	05/1998	Johe			
	AZ	5,512,600	04/1996	Mikos et al.			
<i>q</i>	BA	5,514,378	05/1996	Mikos et al.			

Examiner Signature <i>LANKFORD</i>	Date Considered <i>9/9/4</i>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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<i>B2</i>	BB	5,696,175	12/1997	Mikos et al.			
	BC	5,443,950	08/1995	Naughton et al.			
	BD	5,578,485	11/1996	Naughton et al.			
	BE	5,593,974	01/1997	Rosenberg et al.			
	BF	4,191,747	03/1980	Scheicher			
	BG	5,795,790	08/1998	Schinstine et al.			
	BH	5,294,446	03/1994	Schlameus et al.			
	BI	5,575,815	11/1996	Slepian et al.			
	BJ	5,061,620	10/1991	Tsukamoto et al.			
	BK	5,041,138	08/1991	Vacanti et al.			
	BL	5,716,404	02/1998	Vacanti et al.			
	BM	5,855,610	01/1999	Vacanti et al.			
	BN	5,804,178	09/1998	Vacanti et al.			
	BO	5,567,612	10/1996	Vacanti et al.			
	BP	5,736,372	04/1998	Vacanti et al.			
	BQ	5,759,830	06/1998	Vacanti et al.			
	BR	5,770,193	06/1998	Vacanti et al.			
	BS	5,770,417	06/1998	Vacanti et al.			
	BT	5,300,295	04/1994	Viegas et al.			
	BU	5,306,501	04/1994	Viegas et al.			
	BV	5,318,780	06/1994	Viegas et al.			
	BW	5,071,644	12/1191	Viegas et al.			
	BX	5,277,911	01/1994	Viegas et al.			
	BY	5,292,516	03/1994	Viegas et al.			
	BZ	5,298,260	03/1994	Viegas et al.			
	CA	4,997,443	03/1991	Walthall et al.			
	CB	5,750,376	05/1998	Weiss et al.			

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LBL	CC	5,851,832	12/1998	Weiss et al.			
↓	CD	5,292,655	03/1994	Willie, Jr., et al.			
↓	CE	4,060,081	11/1977	Yannas et al.			
↓	CF	5,827,735	10/1998	Young et al.			

### Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
LBL	CG	WO 93/16687	02/1993	PCT International				
↓	CH	WO 93/24627	12/1993	PCT International				
↓	CI	WO 94/25079	11/1994	PCT International				
↓	CJ	WO 94/25080	11/1994	PCT International				
↓	CK	WO 96/40304	12/1996	PCT International				
↓	CL	WO 97/41208	11/1997	PCT International				
↓	CM	WO 98/23761	06/1998	PCT International				
↓	CN	WO 98/30678	07/1998	PCT International				
↓	CO	EP 0 361 957	04/1990	EPO				

### Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
LBL	CP	Burke et al., "Successful Use of a Physiologically Acceptable Artificial Skin in the Treatment of Extensive Burn Injury", Ann. Surg. 194:413-428, 1981.
↓	CQ	Cornelius et al., "In Vitro-Generation of Islets in Long-Term Cultures of Pluripotent Stem Cells From Adult Mouse Pancreas", Hormone Metabol. Res., 29:271-277, 1997.
↓	CR	Craig et al., "In Vivo Growth Factor Expansion of Endogenous Subependymal Neural Precursor Cell Populations in the Adult Mouse Brain", J. Of Neurosci., 16:2649-2658, 1996.
↓	CS	Davis et al., "A Self-Renewing Multipotential Stem Cell in Embryonic Rat Cerebral Cortex", Nature, 372:263-269, 1994.
↓	CT	Farriol et al., "Epidermal growth factor excretion in burned rats", Burns 20:496-498, 1994.
↓	CU	Frederiksen et al., "Proliferation and Differentiation of Rat Neuroepithelial Precursor Cells In Vivo", J. Of Neurosci., 8:1144-1151, 1988.
↓	CV	Feringa et al., "Regeneration of Corticospinal Axons in the Rat", Annals Of Neurology, 2:315-321, 1977.
↓	CW	Gage et al., "Survival and Differentiation of Adult Neuronal Progenitor Cells Transplanted to the Adult Brain", Proc. Natl. Acad. Sci. USA, 92:11879-11883, 1995.

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LBC	CX	Hansbrough, "Current Status of Skin Replacement for Coverage of Extensive Burn Wounds", J. Trauma, 30(12):S155-S162, 1990.
	CY	Houle et al., "Bridging a Complete Transection Lesion of Adult Rat Spinal Cord with Growth Factor-Treated Nitrocellulose Implants", J. Of Neural Transplantation & Plasticity, 5:115-124, 1994.
	CZ	Hutchison et al., "Global Transposon Mutagenesis and a Minimal Mycoplasma Genome", Science, 286:2165-2169, 1999
	DA	Lachyankar et al., "Embryonic Precursor Cells that Express Trk Receptors: Induction of Different Cell Fates by NGF, BDNF, NT-3, and CNTF", Experimental Neurology, 144:350-360, 1997.
	DB	Langer et al., "Tissue Engineering", Science, 260:920-926, 1993.
	DC	Lindsell et al., "Jagged: A Mammalian Ligand That Activates Notch1", Cell 80:909-917, 1995.
	DD	Marshall, et al., "A Critical Assessment of the Use of Microculture Tetrazolium Assays to Measure Cell Growth and Function", Growth Regulation, 5:69-84, 1995
	DE	Moore et al., "Vascular function and tissue injury in murine skin following hyperthermia and photodynamic therapy, alone and in combination", Br. J. Cancer 66:1037-1043, 1992.
	DF	Morshead et al., "Neural Stem Cells in the Adult Mammalian Forebrain: A Relatively Quiescent Subpopulation of Subependymal Cells", Neuron, 13:1071-1082, 1994.
	DG	Nerem, "Cellular Engineering", Ann. Biomed. Eng. 19:529-545, 1991.
	DH	Raszka et al., "The Use of Hyaluronidase in the Treatment of Intravenous Extravasation Injuries", J. Perinatol. 10:146-149, 1990.
	DI	Ray et al., "Proliferation, Differentiation, and Long-Term Culture of Primary Hippocampal Neurons", Proc. Natl. Acad. Sci. USA, 90:3602-3606, 1993.
	DJ	Ray et al., "Spinal Cord Neuroblasts Proliferate in Response to Basic Fibroblast Growth Factor", J. Of Neurosci., 14:3548-3564, 1994.
	DK	Reynolds et al., "Clonal and Population Analyses Demonstrate that an EGF-Responsive Mammalian Embryonic CNS Precursor is a Stem Cell", Developmental Biology, 175:1-13, 1996.
	DL	Reynolds et al., "Generation of Neurons and Astrocytes from Isolated Cells of the Adult Mammalian Central Nervous System", Science, 255:1707-1710, 1992.
	DM	Reynolds et al., "A Multipotent EGF-Responsive Striatal Embryonic Progenitor Cell Produces Neurons and Astrocytes", The J. Of Neurosci., 12:4565-4574, 1992.
	DN	Roughneen et al., "Isolation of Rat Pancreatic Islets By Ductal Injection of Collagenase", Transplantation, 42:689-691, 1986
	DO	Shihabuddin et al., "FGF-2 Is Sufficient to Isolate Progenitors Found in the Adult Mammalian Spinal Cord", Experimental Neurology, 148:577-586, 1997.
	DP	Shihabuddin et al., "The Adult CNS Retains the Potential to Direct Region-Specific Differentiation of a Transplanted Neuronal Precursor Cell Line", J. Of Neurosci., 15:6666-6678, 1995.
	DQ	Shihabuddin et al., "Induction of Mature Neuronal Properties in Immortalized Neuronal Precursor Cells Following Grafting into the Neonatal CNS", J. Of Neurocytology, 25:101-111, 1996.
	DR	Stanton et al., "The Growth of Chondrocytes Using Gelfoam as a Biodegradable Scaffold", J. Of Materials Science: Materials In Medicine 6:739-744, 1995.
	DS	Suhonen et al., "Differentiation of Adult Hippocampus-Derived Progenitors into Olfactory Neurons in Vivo", Nature, 383:624-627, 1996.
	DT	Sutton et al., "Isolation of rat pancreatic islets by ductal injection of collagenase", Transplantation, 42:689-691, 1986
	DU	Taylor et al., "Widespread Engraftment of Neural Progenitor and Stem-Like Cells Throughout the Mouse Brain", Transplantation Proceedings, 29:845-847, 1997.

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<b>LBL</b>	DV	Weiss et al., "Multipotent CNS Stems Cells are Present in the Adult Mammalian Spinal Cord and Ventricular Neuroaxis", J. Of Neurosci., 16:7599-7609, 1996.
<b>↓</b>	DW	Yannas et al., "Wound Tissue Can Utilize a Polymeric Template to Synthesize a Functional Extension of Skin", Science, 215:174-176, 1982.

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